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09/753,329	12/29/2000	William D. Rupp	046700-5018	8414
28977	7590 12/10/2004		EXAMINER	
MORGAN, LEWIS & BOCKIUS LLP 1701 MARKET STREET			PATEL, JAGDISH	
PHILADELPHIA, PA 19103-2921			ART UNIT	PAPER NUMBER
			3624	

DATE MAILED: 12/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	N)		
	A	09/753,329	RUPP ET AL.	1		
	Office Action Summary	Examiner	Art Unit			
		JAGDISH PATEL	3624	·		
Period f	The MAILING DATE of this communication reply	ation appears on the cover sheet w	ith the correspondence addr	ess		
THE - External control	MORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICATION of time may be available under the provisions of r SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum staturure to reply within the set or extended period for reply will reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, may a nication. days, a reply within the statutory minimum of thi tory period will apply and will expire SIX (6) MO III, by statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this com BANDONED (35 U.S.C. § 133).	munication.		
Status						
1)[\]	Responsive to communication(s) filed	on 29 December 2000.				
2a)□	•	This action is non-final.				
3)	Since this application is in condition fo	•	tters, prosecution as to the r	nerits is		
·	closed in accordance with the practice					
Disposit	tion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-4 is/are pending in the apple 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 1-4 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	withdrawn from consideration.				
Applicat	tion Papers					
9)	The specification is objected to by the	Examiner.				
10)[The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the					
11)	The oath or declaration is objected to be	by the Examiner. Note the attache	ed Office Action or form PTC)-152.		
Priority	under 35 U.S.C. § 119	•				
а)		ocuments have been received. ocuments have been received in a the priority documents have been al Bureau (PCT Rule 17.2(a)).	Application No n received in this National S	tage		
Attachmer			0(070.440)			
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTC		Summary (PTO-413) (s)/Mail Date			
3) 🛛 Infor	rmation Disclosure Statement(s) (PTO-1449 or PT er No(s)/Mail Date <u>6/10/2002</u> .		Informal Patent Application (PTO-1	152)		

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DETAILED ACTION

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 1-4 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Subject Claims not within Technological Arts (claims 1-4)

As an initial matter, the United States Constitution under Art. I, §8, cl. 8 gave Congress the power to "[p]romote the progress of science and useful arts, by securing for limited times to authors and inventors the exclusive right to their respective writings and discoveries". In carrying out this power, Congress authorized under 35 U.S.C. §101 a grant of a patent to "[w]hoever invents or discovers any new and useful process, machine, manufacture, or composition or matter, or any new and useful improvement thereof." Therefore, a fundamental premise is that a patent is a statutorily created vehicle for Congress to confer an exclusive right to the inventors for "inventions" that promote the progress of "science and the useful arts". The phrase "technological arts" has been created and used by the courts to offer another view of the term "useful arts". See In re Musgrave, 167 USPQ

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(BNA) 280 (CCPA 1970). Hence, the first test of whether an invention is eligible for a patent is to determine if the invention is within the "technological arts".

Further, despite the express language of \$101, several judicially created exceptions have been established to exclude certain subject matter as being patentable subject matter covered by \$101. These exceptions include "laws of nature", "natural phenomena", and "abstract ideas". See Diamond v. Diehr, 450, U.S. 175, 185, 209 USPQ (BNA) 1, 7 (1981). However, courts have found that even if an invention incorporates abstract ideas, such as mathematical algorithms, the invention may nevertheless be statutory subject matter if the invention as a whole produces a "useful, concrete and tangible result." See State Street Bank & Trust Co. v. Signature Financial Group, Inc. 149 F.3d 1368, 1973, 47 USPQ2d (BNA) 1596 (Fed. Cir. 1998).

This "two prong" test was evident when the Court of Customs and Patent Appeals (CCPA) decided an appeal from the Board of Patent Appeals and Interferences (BPAI). See In re Toma, 197 USPQ (BNA) 852 (CCPA 1978). In Toma, the court held that the recited mathematical algorithm did not render the claim as a whole non-statutory using the Freeman-Walter-Abele test as applied to Gottschalk v. Benson, 409 U.S. 63, 175 USPQ (BNA) 673 (1972). Additionally, the court decided separately on the issue of the "technological arts". The court developed a "technological arts" analysis:

The "technological" or "useful" arts inquiry must focus on whether the claimed subject matter...is statutory, not on whether the product of the claimed subject matter...is statutory, not on whether the prior art which the claimed subject matter purports to replace...is statutory, and not on whether

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the claimed subject matter is presently perceived to be an improvement over the prior art, e.g., whether it "enhances" the operation of a machine. In re Toma at 857.

In Toma, the claimed invention was a computer program for translating a source human language (e.g., Russian) into a target human language (e.g., English). The court found that the claimed computer implemented process was within the "technological art" because the claimed invention was an operation being performed by a computer within a computer.

The decision in State Street Bank & Trust Co. v. Signature Financial Group, Inc. never addressed this prong of the test. In State Street Bank & Trust Co., the court found that the "mathematical exception" using the Freeman-Walter-Abele test has little, if any, application to determining the presence of statutory subject matter but rather, statutory subject matter should be based on whether the operation produces a "useful, concrete and tangible result". See State Street Bank & Trust Co. at 1374. Furthermore, the court found that there was no "business method exception" since the court decisions that purported to create such exceptions were based on novelty or lack of enablement issues and not on statutory grounds. Therefore, the court held that "[w]hether the patent's claims are too broad to be patentable is not to be judged under °101, but rather under §\$102, 103 and 112." See State Street Bank & Trust Co. at 1377. Both of these analysis goes towards whether the claimed invention is non-statutory because of the presence of an abstract idea. Indeed, State Street abolished the Freeman-Walter-Abele test used in Toma. However, State Street never addressed the second part of the analysis, i.e., the "technological arts" test established in Toma because the invention . Art Unit: 3624

in State Street (i.e., a computerized system for determining the year-end income, expense, and capital gain or loss for the portfolio) was already determined to be within the technological arts under the Toma test. This dichotomy has been recently acknowledged by the Board of Patent Appeals and Interferences (BPAI) in affirming a \$101 rejection finding the claimed invention to be non-statutory. See Ex parte Bowman, 61 USPQ2d (BNA) 1669 (BdPatApp&Int 2001).

In the present application, Claims 1-4 have no connection to the technological arts. None of the steps indicate any connection to a computer or technology. The step a) - d) do not recite as being performed by a computer and/or carried out over a communication network. For example, the functional steps (or process) (a) - (d) of claim 1 are broadly interpreted as being carried out without computer implementation, i.e. these steps can be carried out manually. The claims are therefore not limited to a technological arts. Therefore, the claims are directed towards non-statutory subject matter. To overcome this rejection the Examiner recommends that Applicant amend the claims to better clarify which of the steps are being performed within the technological arts, such as the steps being performed by a computer. Please note that the preamble should also be amended to state such technological implementation to be consistent with the appropriate method steps.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4. Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites limitation "calculating the total bid value by performing the function on the bid variables using the initial values" is unclear and therefore indefinite because the function is not defined. Performing a function on certain variables, even if the variables themselves are defined (e.g. variables which define a multiple variable bid), the claim fails to define the function which is performed on the bid variables which renders the claim indefinite.

The claim is also indefinite because step (c) receiving an updated value for one of the bid variables does not functionally relate to step (b) which calculates the total bid value by performing the function on the initial bid values. Step (c) can be treated as another value of the total bid based on the updated value of the one of the bid variable because the adjusted value for the total bid value also does not functionally relate to parameters of steps (a) and (b).

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Claims 2-4 also contain similar deficiencies rendering these claims indefinite.

Claim 2 contains additional deficiency as explained in the following paragraph.

Step (b) calculates the total bid value using a function say summation (sum) of the bid variables p1 and p2 associated with a bid. Then total of step (b) would be, total = (sum (p1, p2)) or total = p1 + p2. p1 is automatically adjustable.

At step (c) an updated value for pl, say pl1 is received.

As per step (d) an adjusted value for p1 (p1+) is calculated using the function (sum) and the total bid value and the updated value received in step (c), p11. This would translate into the following expression:

of p2)

The purpose of this exercise is to demonstrate that the claim as a whole is indefinite since, precise nature of the calculation embedded in the claim is not clear. One can define multiple versions of using the independent variables and the associated function as per claim (c).

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Similar analysis also renders claims 3 and 4 indefinite and unclear.

Please amend the claims and/or provide explanation to resolve the aforementioned ambiguities.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Parunal et al (US 2002/0013631). (Parunak).

 Per claims 1-4 Parunak discloses a method of automatically adjusting a total bid value for a multiple variable bid for an online auction and wherein the total bid value is calculated by performing a function on multiple bid variables (see p. 9, col. [0125]-[0137], in particular sum of the prices of the offers to made by the ith agent and rules applied in formulating bids as explained in para [0134]-[0135]). Similar analysis can also be

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applied to methods recited in claims 2-4 as best understood in view of the 112(second) analysis presented in the foregoing paragraphs.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAGDISH PATEL whose telephone number is (703)308-7837. The examiner can normally be reached on 800AM-600PM M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vincent Millin can be reached on (703)308-1065. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jagdish N. Patel

(Primary Examiner, AU 3624)

12/5/04